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SUSS MICROOPTICS SA

Hauterive, 2020

Dr. Reinhard Völkel, CEO

SUSS MICROOPTICS – WE SET THE STANDARDS

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- + World leading supplier of high-quality Micro-Optics
- + More than 180 active customers worldwide
- + CAGR 30% for last 5 years
- + We are part of **SUSS MicroTec** group



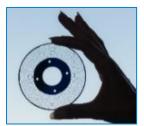




IATF 16949

Automotive Qualifier

Microlens Array



Nipkow Disk



MO Exposure Optics



SUSS MicroOptics

PRODUCTS DEFINITIONS

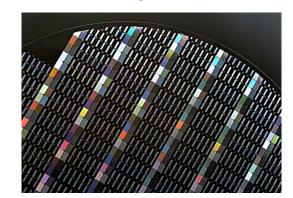


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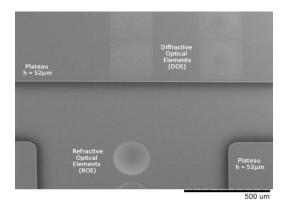
- Microlenses or Refractive Optical Elements (ROE): small lenses with lens diameters typically below 2 millimeters
- Diffractive Optical Elements (DOE): complex pattern of micro- and nano-scale structures to transform light in a predetermined way
- Hybrid Micro-Optics: combination of refractive (ROE), diffractive optical elements (DOE) and/or other microstructures, like e.g. pinhole arrays, posts, marks, ..., integrated on one- or both sides of a planar substrate or wafer.

Refractive Microlens Arrays

Diffractive Optical Elements



Hybrid Micro-Optics



APPLICATIONS & MARKETS FOR PLANAR MICRO-OPTICS

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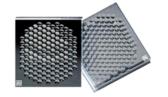
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Wafer-Level Optics (WLO)

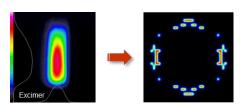


NanEye - disposable Endoscope

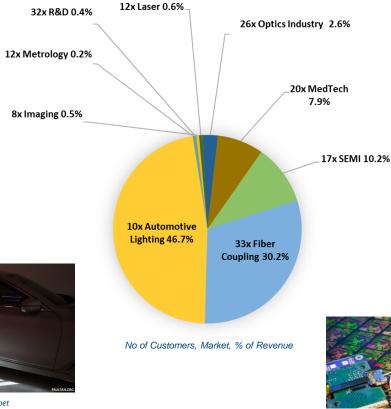




BMW Welcome Light Carpet



Laser Beam Shaping



Microscopes

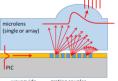
Skin Treatment



ASML Twinscan NXT 1970 Ci



Fiber Coupler for Telecom/Datacom



waveguide grating coupler

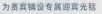
MICRO-OPTICS FOR AUTOMOTIVE LIGHTING

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- + Light Carpets
- + Front Lights
 - LED Matrix
 - Laser Light
- + Interior
- + Back Lights





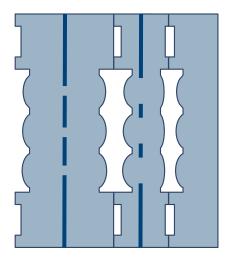








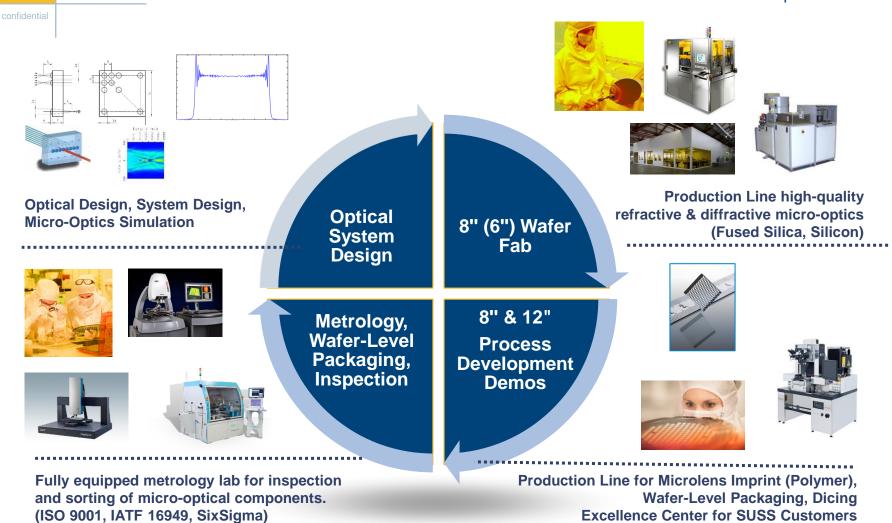




IMPRINT EXCELLENCE CENTER AT SMO

"You can't supply top-notch production equipment without have a production line in place"

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Reinhard Voelkel, SUSS MicroOptics SA 6



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Thank you